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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/695,976	10/26/2000	Jin Young Kim	K-229	2954	
7:	590 02/06/2004	EXAMINER			
FLESHNER & KIM LLP			PATEL, NITIN		
14500 AVION	PARKWAY	•			
SUITE 125			ART UNIT	PAPER NUMBER	
CHANTILLY,	VA 20151	2673	15		
			DATE MAILED: 02/06/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		10	Annlination	No.	Applicant(s)				
			Application	NO					
			09/695,976		KIM ET AL.				
Office Action Summary		E	Examiner		Art Unit				
			Nitin Patel		2673				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1) 🂢	Responsive to communication(s) file	ed on 14 Octo	ober 2003.						
	This action is FINAL . 2b)⊠ This action is non-final.								
3)□	/ -								
, —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
5)□ 6)⊠ 7)⊠	 4) Claim(s) 1-46 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-4,7,15,30 and 45 is/are rejected. 7) Claim(s) 5,6,8-14,16-29,31-44 and 46 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 								
Applicati	on Papers								
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any objected to the oath or declaration is objected to	a) accept ction to the dra the correction	awing(s) be h	eld in abeyance. See f the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CF	, ,			
Priority ι	ınder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date		5)	Interview Summary (Paper No(s)/Mail Dai Notice of Informal Pa	te)-152)			

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DETAILED ACTION

1. In view of the appeal brief filed on 10/14/2003, PROSECUTION IS HEREBY REOPENED. A new ground of rejection set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1,2-4,7,15,30,45 are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA (Applicant's Admittance of Prior art) in view of Derwent ACC No (1998-511098) which has translation of Abstract of Japanese Patent (JP 10222120 A).

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As per claims 1,7 AAPA shows a plurality of electrodes pairs successively formed on an upper electrodes (In fig.1A) and a dielectric layer formed on the substrate to deposit the sustain electrodes and the priming electrodes (In Fig.1A).

AAPA does not show priming electrodes configured to increase the amount pf priming particles in a discharge cell to reduce lag formed between pair of sustain electrodes. Derwent ACC no. (1998-511098) shows PDP device that shortens discharge lag time between electrodes that prevents incorrect discharge. It would have been obvious to one of ordinary skill in the art, at the time of the invention was made to allow the teaching of Derwent's reference into PDP of a AAPA's because it would have display capable of being addressed at a high speed with a low voltage deterioration of contrast.

As per claim 2, AAPA shows the priming electrodes are commonly connected to a common node (In Fig. 2A).

As per claims 3,4 AAPA shows the priming electrodes are formed of Cr, Cu and Cr on the substrate (in fig.2B).

As per claim 15,30,45 AAPA does not show priming electrodes configured to increase the amount pf priming particles in a discharge cell to reduce lag formed between pair of sustain electrodes. Derwent ACC No. (1998-511098) shows PDP device that shortens discharge lag time between electrodes that prevents incorrect discharge. It would have been obvious to one of ordinary skill in the art, at the time of the invention was made to allow the teaching of Derwent's reference into PDP of a

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AAPA's because it would have display capable of being addressed at a high speed with a low voltage deterioration of contrast.

Allowable Subject Matter

4. Claims 5,6,8-14,16-29,31-44,46 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art fails to teach or suggest the layer has a thickness of a 10 micrometer to 30 micrometer and a black matrixes formed between the substrate and the priming electrodes as claimed in claims 5,6.

The prior art fails to teach or suggest the potential difference of 270 volts or below between on/off periods of the common pulses is lower than a discharge start voltage of the plasma display panel and common pulse in the on periods is 1microsecond below and the maximum potential difference between the scan pulse and the address pulse is more than 280 volts and time difference between the time when the common pulse is turned off and the time when the scan pulse is turned on is 500 nanoseconds as claimed in claims 8-14.

The prior art fails to teach or suggest the discharge cell having a second electrodes and a third electrode and the second electrode and the third electrode are configured to form wall charge proximate to the second electrode and the third electrode in response to a first voltage applied to the second electrode and a second voltage applied to the third electrode.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nitin Patel whose telephone number is 703-308-7024. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin H Shalwala can be reached on 703-305-4938. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-9618.

NP December 24, 2003

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